Project Fact Sheet

CEC / SMUD Regen Project 1.1 Technology Assessment for Advanced Biomass Power Generation

GOALS

- Determine the feasibility in the Sacramento region of promising commercial biomass power generation systems used in Europe and elsewhere, including solid fueled, gasification, liquefaction, and landfill gas technologies.
- Establish environmental performance of these novel and advanced biomass technologies for application in the region.
- Identify sites, resources, and scales of biomass power generation that might be developed over the near and long term.
- Initiate industry collaborations for concept evaluation.

PROJECT DESCRIPTION

A technical assessment will be conducted of advanced and novel power generation concepts from biomass to increase the efficiency of conversion and improve the opportunities for agricultural and solid waste fuels not currently utilized in California for reasons of ash fouling, emissions, or cost. The assessment will include a literature review and industry survey of facilities and applications throughout the world; compilation of plant design concepts and operating characteristics; technical and environmental performance, costs, and problems; identification of fuel types; and a comparison with current technologies in California. Promising designs and concepts will be identified along with enhancements needed for potential application in the Sacramento region to meet technical and environmental constraints

BENEFITS TO CALIFORNIA

This project will identify near- and longer-term technologies for enhanced biomass power generation in the region, improving the use of a diverse fuel mix, and reducing environmental impacts from agricultural residue and solid waste disposal activities. The project will result in a better

understanding of the means to increase generation, improve efficiency, and/or reduce costs of power from straw, municipal solid wastes, and other biomass materials available within the region.

FUNDING AMOUNT

Commission	$158,070
Match	$20,120
Total	$178,190

PROJECT STATUS

Project not started. Proposed start date: December 2002.

FOR MORE INFORMATION

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